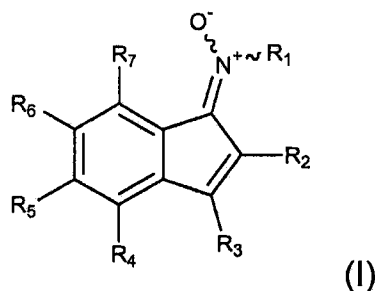


## IN THE CLAIMS

The following is an updated listing of the claims in the application with claims 1, 3, 4, 6-11 and 12 shown as currently amended.

### LISTING OF CLAIMS

1. (Currently amended) ~~An indene derivative~~ A compound of formula (I) or a pharmaceutically acceptable salt thereof:

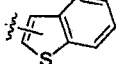



wherein,

$R_1$  is  $C_{1-6}$  alkyl,  $C_{1-6}$  alkenyl, or  $C_{3-6}$  cycloalkyl, each of which is unsubstituted or ~~substituted~~ substituted with one or more phenyl groups;

$R_2$  is H, CN,  $CO_2R^a$ ,  $CH_2CO_2R^a$ ,  $CONR^bR^c$ , , or phenyl;

$R_3$  is  $C_{1-6}$  alkyl,  $C_{3-6}$  cycloalkyl, naphthyl, phenyl,

, , , or , phenyl and  being each unsubstituted or

~~substituted~~ substituted with one or more substituents selected from the group

consisting of halogen, CN, NH<sub>2</sub>, NO<sub>2</sub>, OR<sup>a</sup>, phenoxy, C<sub>1-6</sub> alkyl, and C<sub>3-6</sub> cycloalkyl; and

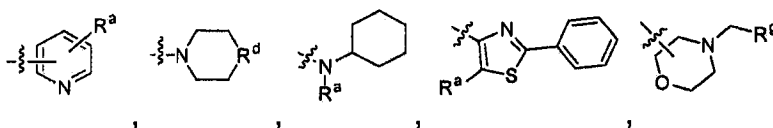
R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, and R<sub>7</sub> are each independently H, OH, OSO<sub>2</sub>CH<sub>3</sub>, O(CH<sub>2</sub>)<sub>m</sub>R<sup>e</sup>, CH<sub>2</sub>R<sup>f</sup>, OCOCH<sub>2</sub>OR<sup>g</sup>, OCH<sub>2</sub>CH<sub>2</sub>OR<sup>g</sup>, OCH<sub>2</sub>CH=CHR<sup>g</sup>, ~~or pyridine-2-yloxy~~, or R<sub>5</sub> and R<sub>6</sub> together form OCH<sub>2</sub>O;

in which R<sup>a</sup> is H, ~~or~~ C<sub>1-6</sub> alkyl, or C<sub>3-6</sub> cycloalkyl, C<sub>1-6</sub> alkyl and C<sub>3-6</sub> cycloalkyl being each unsubstituted or ~~substituted~~ substituted with one or more halogens;

R<sup>b</sup> and R<sup>c</sup> are each independently H, C<sub>1-6</sub> alkyl, or C<sub>3-6</sub> cycloalkyl;

R<sup>d</sup> is O, S, or NR<sup>a</sup>;

R<sup>e</sup> is H, halogen, C<sub>3-6</sub> cycloalkyl, naphthyl,



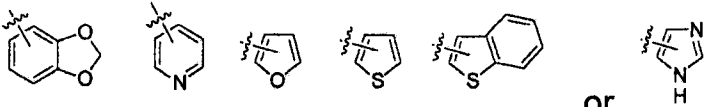

~~, adamantyl,~~ or phenyl, phenyl being unsubstituted or substituted with one or more substituents selected from the group consisting of halogen, CN, NH<sub>2</sub>, NO<sub>2</sub>, OR<sup>a</sup>, CF<sub>3</sub>, and COOR<sup>a</sup>;

R<sup>f</sup> is OCH<sub>2</sub>CH<sub>2</sub>R<sup>g</sup> or ;

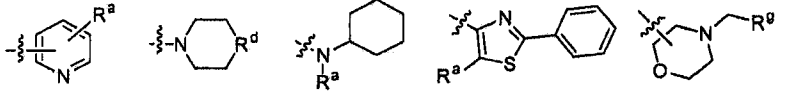
R<sup>g</sup> is phenyl, which is unsubstituted or substituted with one or more substituents selected from the group consisting of halogen, CN, NH<sub>2</sub>, NO<sub>2</sub>, and OR<sup>a</sup>; and

m is an integer in the range of 1 to 5.

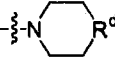
2. (currently amended) The compound of claim 1, wherein  $R_1$  is  $C_{1-6}$  alkyl, which is unsubstituted or ~~substituted~~ substituted with a phenyl group;  $R_2$  is H, CN,  $CO_2R^a$ ,  $CH_2CO_2R^a$ ,  $CONR^bR^c$ , or phenyl;  $R_3$  is  $C_{1-6}$  alkyl,  $C_{3-6}$

cycloalkyl, ~~or~~ phenyl, , or , phenyl

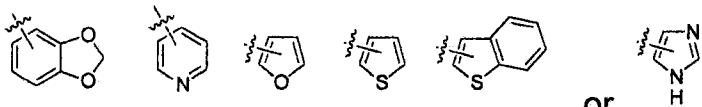

being unsubstituted or ~~substituted~~ substituted with one or more substituents selected from the group consisting of halogen,  $C_{1-6}$  alkyl, and  $C_{3-6}$  cycloalkyl;  $R_4$  and  $R_7$  are H;  $R_5$  and  $R_6$  are each independently OH,  $OSO_2CH_3$ ,  $O(CH_2)_mR^e$ ,  $CH_2R^f$ ,  $OCOCH_2OR^g$ ,  $OCH_2CH_2OR^g$ , or  $OCH_2CH=CHR^g$ , or together form  $OCH_2O$ ;  $R^a$  is H, or  $C_{1-6}$  alkyl;  $R^d$  is O or  $NCH_3$ ;  $R^e$  is H, halogen,

$C_{3-6}$  cycloalkyl, naphthyl, ,

or phenyl, phenyl being unsubstituted or substituted with one or more substituents selected from the group consisting of halogen, OH, methoxy,

$CF_3$ , and  $COOR^a$ ;  $R^f$  is  $OCH_2CH_2R^g$  or ; and  $R^g$  is phenyl.

3. (currently amended) The compound of claim 2, wherein  $R_1$  is  $CH_3$ ;  $R_2$  is H, CN,  $CO_2R^a$ , or  $CONR^bR^c$ ;  $R_3$  is  $C_{1-6}$  alkyl, ~~or~~ phenyl,

, or , phenyl being unsubstituted or

~~substituted~~ substituted with one or more halogens or C<sub>1-6</sub> alkyl groups; and R<sub>5</sub> and R<sub>6</sub> are each independently O(CH<sub>2</sub>)<sub>m</sub>R<sup>e</sup> or CH<sub>2</sub>R<sup>f</sup>, or together form OCH<sub>2</sub>O.

4. (currently amended) The A compound of claim 1, ~~which is~~ selected from the group consisting of:

- 1) 6-methoxy-1-(*trans*-methylimino-*N*-oxy)-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 2) 1-(*trans*-isopropylimino-*N*-oxy)-6-methoxy-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 3) 1-(*trans*-benzylimino-*N*-oxy)-6-methoxy-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 4) 1-(*trans*-ethylimino-*N*-oxy)-6-methoxy-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 5) 6-methoxy-1-(*trans*-phenylpropylimino-*N*-oxy)-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 6) 6-methoxy-1-(*trans*-(2-methylbutenylimino)-*N*-oxy)-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 7) 1-(*trans*-isobutylimino-*N*-oxy)-6-methoxy-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 8) 1-(*trans*-methylimino-*N*-oxy)-6-(2-morpholine-4-ylethoxy)-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 9) 1-(*trans*-methylimino-*N*-oxy)-3-phenyl-6-(3-phenylpropoxy)-1H-indene-2-carboxylate ethyl ester
- 10) 1-(*trans*-methylimino-*N*-oxy)-6-phenetyloxy-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 11) 3-furan-3-yl-1-(*trans*-methylimino-*N*-oxy)-6-(3-phenylpropoxy)-1H-indene-2-carboxylate ethyl ester
- 12) 6-hydroxy-1-(*trans*-methylimino-*N*-oxy)-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 13) 1-(*cis*-methylimino-*N*-oxy)-3-phenyl-6-(3-phenylpropoxy)-1H-indene-2-carboxylate ethyl ester
- 14) 3-(*trans*-methylimino-*N*-oxy)-1-phenyl-3H-indene-5-ol
- 15) 1-(*trans*-methylimino-*N*-oxy)-3-phenyl-6-(5-phenylpentyloxy)-1H-indene-2-carboxylate ethyl ester
- 16) 1-(*cis*-methylimino-*N*-oxy)-3-phenyl-6-(5-phenylpentyloxy)-1H-indene-2-carboxylate ethyl ester
- 17) 6-[2-(4-chlorophenoxy)acetoxyl]-1-(*trans*-methylimino-*N*-oxy)-3-phenyl-1H-indene-2-carboxylate ethyl ester

- 18) 6-[2-(4-chlorophenoxy)ethoxy]-1-(*trans*-methyylimino-*N*-oxy)-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 19) 1-(*trans*-methyylimino-*N*-oxy)-6-(naphthalene-2-ylmethoxy)-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 20) methyl-[3-phenyl-6-(3-phenylpropoxy)indene-1-ylidene]amine-*N*-oxide
- 21) 1-(*trans*-methyylimino-*N*-oxy)-6-[2-(5-methyl-2-phenylthiazol-4-yl)ethoxy]-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 22) 1-(*trans*-methyylimino-*N*-oxy)-3-phenyl-6-(3-phenylpropoxy)-1H-indene-2-carboxylate ethyl ester
- 23) 6-[2-(4-hydroxyphenyl)ethoxy]-1-(*trans*-methyylimino-*N*-oxy)-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 24) 6-(2-adaman-1-ylethoxy)-1-(*trans*-methyylimino-*N*-oxy)-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 25) 6-(2-cyclohexylethoxy)-1-(*trans*-methyylimino-*N*-oxy)-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 26) 1-(*trans*-methyylimino-*N*-oxy)-3-phenyl-6-(3-phenylpropoxy)-1H-indene-2-carboxylate ethyl ester
- 27) 6-[2-(2-fluorophenyl)ethoxy]-1-(*trans*-methyylimino-*N*-oxy)-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 28) 6-[2-(3-fluorophenyl)ethoxy]-1-(*trans*-methyylimino-*N*-oxy)-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 29) 6-[2-(4-fluorophenyl)ethoxy]-1-(*trans*-methyylimino-*N*-oxy)-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 30) 1-(*trans*-methyylimino-*N*-oxy)-3-phenyl-6-[2-(3-trifluoromethylphenyl)ethoxy]-1H-indene-2-carboxylate ethyl ester
- 31) 6-(4-methoxycarbonylbenzyloxy)-1-(*trans*-methyylimino-*N*-oxy)-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 32) 1-(*trans*-methyylimino-*N*-oxy)-3-phenyl-6-(3-phenylpropoxy)-1H-indene-2-carboxylate ethyl amide
- 33) 1-(*trans*-methyylimino-*N*-oxy)-6-(2-morpholine-4-ylethoxy)-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 34) 6-[2-(cyclohexylmethylamino)ethoxy]-1-(*trans*-methyylimino-*N*-oxy)-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 35) 3-(2-fluorophenyl)-6-methoxy-1-(*trans*-methyylimino-*N*-oxy)-1H-indene-2-carboxylate ethyl ester
- 36) 1-(*trans*-methyylimino-*N*-oxy)-6-[2-(4-methylpiperazine-1-yl)ethoxy]-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 37) (2,3-diphenyl indene-1-yl lidene)methylamine-*N*-oxide
- 38) 1-(*trans*-methyylimino-*N*-oxy)-3-phenyl-6-(3-phenylpropoxy)-1H-indene-2-carboxylate isopropyl amide
- 39) 1-(*trans*-methyylimino-*N*-oxy)-3-phenyl-6-(3-phenylpropoxy)-1H-indene-2-carboxylate cyclohexyl amide

- 40) [1-(*trans*-methylimino-*N*-oxy)-3-phenyl-6-(3-phenylpropoxy)-1H-indene-2-yl]morpholine-4-yl-methanone
- 41) 1-(*trans*-methylimino-*N*-oxy)-6-(2-morpholine-4-yl-ethoxy)-3-phenyl-1H-indene-2-carboxylate cyclohexyl amide
- 42) 1-(*trans*-methylimino-*N*-oxy)-3-phenyl-5-(3-phenylpropoxy)-1H-indene-2-carboxylate ethyl ester
- 43) 1-(*trans*-methylimino-*N*-oxy)-6-phenethyloxymethyl-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 44) (6-methoxy-3-phenylindene-1-ylidene)methylamine-*N*-oxide
- 45) 1-(*cis*-methylimino-*N*-oxy)-6-(2-morpholine-4-ylethoxy)-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 46) 6-(2-bromoethoxy)-1-(*trans*-methylimino-*N*-oxy)-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 47) 1-(*trans*-methylimino-*N*-oxy)-6-(2-morpholine-4-ylethoxy)-3-phenyl-1H-indene-2-carboxylate *tert*-buthyl ester
- 48) 1-(*trans*-methylimino-*N*-oxy)-5,6-methylenedioxy-1-oxo-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 49) 4-[2-isopropylcarbamoyl-3-(*trans*-methylimino-*N*-oxy)-1-phenyl-3H-indene-5-yl-oxylmethyl]benzoate methyl ester
- 50) 1-(*trans*-methylimino-*N*-oxy)-6-(2-morpholine-4-ylethoxy)-3-phenyl-1H-indene-2-carboxylate isopropyl amide
- 51) 1-(*trans*-methylimino-*N*-oxy)-6-(2-morpholine-4-ylethoxy)-3-phenyl-1H-indene-2-carboxylate cyclopropyl amide
- 52) 3-(3-fluorophenyl)-1-(*trans*-methylimino-*N*-oxy)-6-(2-morpholine-4-ylethoxy)-1H-indene-2-carboxylate isopropyl amide
- 53) (6-methoxy-1-(*trans*-methylimino-*N*-oxy)-3-phenyl-1H-indene-2-yl)acetate ethyl ester
- 54) (6-methoxy-1-(*cis*-methylimino-*N*-oxy)-3-phenyl-1H-indene-2-yl)acetate ethyl ester
- 55) 5-[2-(5-ethylpyridine-2-yl)ethoxy]-1-(*trans*-methylimino-*N*-oxy)-3-phenyl-1H-indene-2-carboxylate isopropyl amide
- 56) 1-(*trans*-methylimino-*N*-oxy)-6-(3-phenylpropoxy)-3-*p*-tolyl-1H-indene-2-carboxylate ethyl ester
- 57) 1-(*trans*-methylimino-*N*-oxy)-6-(3-phenylpropoxy)-3-thiophene-2-yl-1H-indene-2-carboxylate ethyl ester
- 58) 3-(4-chlorophenyl)-1-(*trans*-methylimino-*N*-oxy)-6-(3-phenylpropoxy)-1H-indene-2-carboxylate ethyl ester
- 59) 3-(5-chlorothiophene-2-yl)-1-(*trans*-methylimino-*N*-oxy)-6-(3-phenylpropoxy)-1H-indene-2-carboxylate ethyl ester
- 60) 1-(*trans*-methylimino-*N*-oxy)-6-(3-phenylpropoxy)-3-*m*-tolyl-1H-indene-2-carboxylate ethyl ester

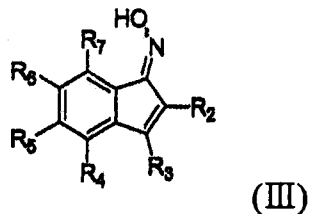
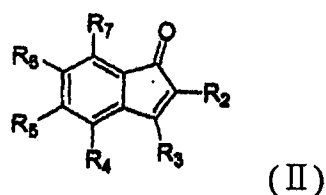
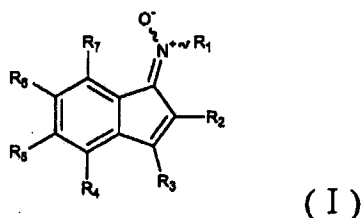
- 61) 1-(*trans*-methylimino-*N*-oxy)-3-(4-phenoxyphenyl)-6-(3-phenylpropoxy)-1H-indene-2-carboxylate ethyl ester
- 62) 3-benzo-[1,3]-dioxol-5-yl-1-(*trans*-methylimino-*N*-oxy)-6-(3-phenylpropoxy)-1H-indene-2-carboxylate ethyl ester
- 63) methyl-[6-(3-phenylpropoxy)-3-pyridine-2-yl-indene-1-ylidene]-amine-*N*-oxide
- 64) 3-furan-2-yl-1-(*trans*-methylimino-*N*-oxy)-6-(3-phenylpropoxy)-1H-indene-2-carboxylate ethyl ester
- 65) 3-ethyl-1-(*trans*-methylimino-*N*-oxy)-6-(3-phenylpropoxy)-1H-indene-2-carboxylate ethyl ester
- 66) 3-methyl-1-(*trans*-methylimino-*N*-oxy)-6-(3-phenylpropoxy)-1H-indene-2-carboxylate ethyl ester
- 67) 1-(*trans*-methylimino-*N*-oxy)-6-(3-phenylpropoxy)-3-thiophene-3-yl-1H-indene-2-carboxylate ethyl ester
- 68) 3-cyclopropyl-1-(*trans*-methylimino-*N*-oxy)-6-(3-phenylpropoxy)-1H-indene-2-carboxylate ethyl ester
- 69) 1-(*trans*-methylimino-*N*-oxy)-6-(2-morpholine-4-ylethoxy)-3-thiophene-3-yl-1H-indene-2-carboxylate ethyl ester
- 70) 3-benzo-[b]-thiophene-3-yl-1-(*trans*-methylimino-*N*-oxy)-6-(3-phenylpropoxy)-1H-indene-2-carboxylate ethyl ester
- 71) 3-(1H-imidazole-4-yl)-1-(*trans*-methylimino-*N*-oxy)-6-(3-phenylpropoxy)-1H-indene-2-carboxylate ethyl ester
- 72) 3-(1-ethyl propyl)-1-(*trans*-methylimino-*N*-oxy)-6-(3-phenylpropoxy)-1H-indene-2-carboxylate ethyl ester
- 73) 1-(*trans*-methylimino-*N*-oxy)-3-phenyl-6-(3-phenylpropoxy)-1H-indene-2-carboxylate amide
- 74) 6-(4-benzylmorpholine-2-ylmethoxy)-1-(*trans*-methylimino-*N*-oxy)-3-phenyl-1H-indene-2-carboxylate isopropyl amide
- 75) 1-(*trans*-methylimino-*N*-oxy)-3-phenyl-6-(3-phenylpropoxy)-1H-indene-2-carbonitrile
- 76) 1-(*trans*-methylimino-*N*-oxy)-5,6-methylenedioxy-1-oxo-3-phenyl-1H-phenyl-2-carboxylate isopropyl amide
- 77) 1-(*trans*-methylimino-*N*-oxy)-6-morpholine-4-ylmethyl-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 78) 1-(*trans*-methylimino-*N*-oxy)-3-phenyl-6-(2-pyridine-2-ylethoxy)-1H-indene-2-carboxylate ethyl ester
- 79) 6-[2-(5-ethylpyridine-2-yl)ethoxy]-1-(*trans*-methylimino-*N*-oxy)-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 80) 1-(*trans*-methylimino-*N*-oxy)-3-phenyl-6-(2-pyridine-2-ylethoxy)-1H-indene-2-carboxylate isopropyl amide
- 81) 6-[2-(5-ethylpyridine-2-yl)ethoxy]-1-(*trans*-methylimino-*N*-oxy)-3-phenyl-1H-indene-2-carboxylate isopropyl amide

- 82) methyl-[6-(2-morpholine-4-ylethoxy)-3-phenylindene-1-ylidene]amine-*N*-oxide
- 83) 5,6-bis-methanesulfonyloxy-1-(*trans*-methylimino-*N*-oxy)-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 84) 1-(*trans*-methylimino-*N*-oxy)-6-(2-morpholine-4-ylethoxy)-3-phenyl-1H-indene-2-carboxylate isobutyl ester
- 85) 1-(*trans*-methylimino-*N*-oxy)-6-(2-morpholine-4-ylethoxy)-3-phenyl-1H-indene-2-carboxylate methyl ester
- 86) 1-(*cis*-methylimino-*N*-oxy)-6-(2-morpholine-4-ylethoxy)-3-phenyl-1H-indene-2-carboxylate methyl ester
- 87) 1-(*trans*-methylimino-*N*-oxy)-6-(2-morpholine-4-ylethoxy)-3-phenyl-1H-indene-2-carboxylate propyl ester
- 88) 3-(4-fluorophenyl)-1-(*trans*-methylimino-*N*-oxy)-6-(2-morpholine-4-ylethoxy)-1H-indene-2-carboxylate ethyl ester
- 89) 1-(*trans*-methylimino-*N*-oxy)-3-phenyl-6-(pyridine-2-ylmethoxy)-1H-indene-2-carboxylate ethyl ester
- 90) 1-(*trans*-methylimino-*N*-oxy)-3-phenyl-6-(pyridine-2-yloxy)-1H-indene-2-carboxylate ethyl ester
- 91) 6-(3-methoxybenzyloxy)-1-(*trans*-methylimino-*N*-oxy)-3-phenyl-1H-indene-2-carboxylate ethyl ester
- 92) 1-(*trans*-methylimino-*N*-oxy)-6-(2-morpholine-4-ylethoxy)-3-thiophene-3-yl-1H-indene-2-carboxylate isopropyl amide
- 93) 3-(1-ethylpropyl)-1-(*trans*-methylimino-*N*-oxy)-6-(2-morpholine-4-ylethoxy)-1H-indene-2-carboxylate ethyl ester
- 94) 3-benzo-[b]-thiophene-3-yl-1-(*trans*-methylimino-*N*-oxy)-6-(2-morpholine-4-ylethoxy)-1H-indene-2-carboxylate isopropyl amide
- 95) 3-(4-fluorophenyl)-1-(*trans*-methylimino-*N*-oxy)-6-(2-morpholine-4-ylethoxy)-1H-indene-2-carboxylate isopropyl amide
- 96) 3-(1-ethylpropyl)-1-(*trans*-methylimino-*N*-oxy)-6-(2-morpholine-4-ylethoxy)-1H-indene-2-carboxylate isopropyl amide
- 97) 1-(*trans*-methylimino-*N*-oxy)-6-(2-morpholine-4-ylethoxy)-3-(2,4,6-trimethylphenyl)-1H-indene-2-carboxylate ethyl ester
- 98) 3-(2,6-dimethylphenyl)-1-(*trans*-methylimino-*N*-oxy)-6-(2-morpholine-4-ylethoxy)-1H-indene-2-carboxylate ethyl ester
- 99) 1-(*trans*-methylimino-*N*-oxy)-3-phenyl-5-(2-pyridine-2-ylethoxy)-1H-indene-2-carboxylate isopropyl amide
- 100) 1-(*trans*-methylimino-*N*-oxy)-5-(2-morpholine-4-ylethoxy)-3-phenyl-1H-indene-2-carboxylate isopropyl amide
- 101) 1-(*cis*-methylimino-*N*-oxy)-6-(2-morpholine-4-ylethoxy)-3-phenyl-1H-indene-2-carboxylate isopropyl ester
- 102) 3-(3-fluorophenyl)-1-(*trans*-methylimino-*N*-oxy)-6-(2-pyridine-2-ylethoxy)-1H-indene-2-carboxylate isopropyl amide



- 103) 6-[2-(5-ethylpyridine-2-yl)ethoxy]-3-(3-fluorophenyl)-1-(*trans*-methylimino-*N*-oxy)-1H-indene-2-carboxylate isopropyl amide  
 104) 3-(4-cyanophenyl)-6-(2-morpholine-4-ylethoxy)-1-(*trans*-methylimino-*N*-oxy)-1H-indene-2-carboxylate ethyl ester, and  
 105) 1-(*trans*-methylimino-*N*-oxy)-3-phenyl-6-(2-pyridine-2-ylethoxy)-1H-indene-2-carboxylate isopropyl ester.

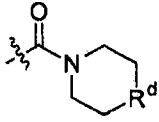
5. (currently amended) A process for preparing the indene derivative of claim 1, which comprises the step of subjecting an indenone compound of formula (II) to a condensation reaction with  $R_1\text{NHOH}$  to obtain a compound of formula (I); or comprises the steps of subjecting an indenone compound of formula (II) to a condensation reaction with  $\text{NH}_2\text{OH}$  to obtain a compound of formula (III), and conducting a reaction of the compound of formula (III) with  $R_1\text{X}$  to obtain a compound of formula (I):



wherein,

X is halogen;

$R_1$  is  $C_{1-6}$  alkyl,  $C_{1-6}$  alkenyl, or  $C_{3-6}$  cycloalkyl, each of which is unsubstituted or ~~substituted~~ substituted with one or more phenyl groups;

$R_2$  is H, CN,  $CO_2R^a$ ,  $CH_2CO_2R^a$ ,  $CONR^bR^c$ , , or phenyl;

$R_3$  is  $C_{1-6}$  alkyl,  $C_{3-6}$  cycloalkyl, or naphthyl, phenyl,

, , , or , phenyl and  being each unsubstituted or

~~substituted~~ substituted with one or more substituents selected from the group consisting of halogen, CN,  $NH_2$ ,  $NO_2$ ,  $OR^a$ , phenyloxy,  $C_{1-6}$  alkyl, and  $C_{3-6}$  cycloalkyl; and

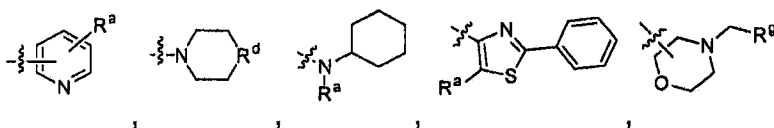
$R_4$ ,  $R_5$ ,  $R_6$ , and  $R_7$  are each independently H, OH,  $OSO_2CH_3$ ,  $O(CH_2)_mR^e$ ,  $CH_2R^f$ ,  $OCOCH_2OR^g$ ,  $OCH_2CH_2OR^g$  or,  $OCH_2CH=CHR^g$ , or pyridine-2-yloxy, or  $R_5$  and  $R_6$  together form  $OCH_2O$ ;

in which  $R^a$  is H,  $C_{1-6}$  alkyl, or  $C_{3-6}$  cycloalkyl,  $C_{1-6}$  alkyl and  $C_{3-6}$  cycloalkyl being each unsubstituted or ~~substituted~~ substituted with one or more halogens;

$R^b$  and  $R^c$  are each independently H,  $C_{1-6}$  alkyl, or  $C_{3-6}$  cycloalkyl;

$R^d$  is O, S, or  $NR^a$ ;

$R^e$  is H, halogen,  $C_{3-6}$  cycloalkyl, naphthyl,



, adamantly, or phenyl,

phenyl being unsubstituted or substituted with one or more substituents selected from the group consisting of halogen, CN,  $NH_2$ ,  $NO_2$ ,  $OR^a$ ,  $CF_3$ , and  $COOR^a$ ;

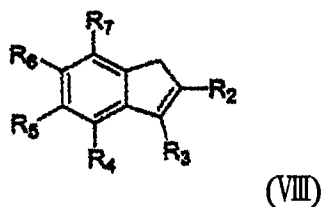
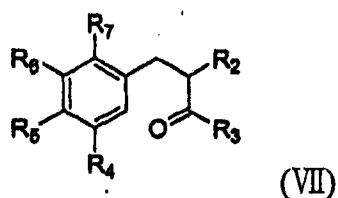
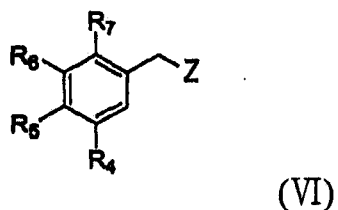
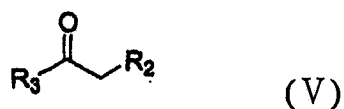
$R^f$  is  $OCH_2CH_2R^g$  or ;

$R^g$  is phenyl, which is unsubstituted or substituted with one or more substituents selected from the group consisting of halogen, CN,  $NH_2$ ,  $NO_2$ , and  $OR^a$ ; and

m is an integer in the range of 1 to 5.

6. (currently amended) The process of claim 5, wherein the indenone compound of formula (II) is prepared by a process comprising the steps of:

- 1) reacting compounds of formula (V) and (VI) to obtain a compound of formula (VII);
- 2) subjecting the compound of formula (VII) to cyclization to obtain a compound of formula (VIII); and
- 3) subjecting the compound of formula (VIII) to oxidation[-];

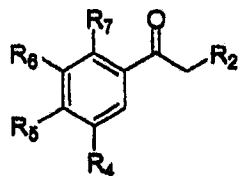


wherein,

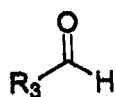
$R_2$  to  $R_7$  have the same meanings as defined in claim 5, and Z is halogen or activated leaving group.

7. (currently amended) The process of claim 5, wherein the indenone compound of formula (II) is prepared by a process comprising the steps of:

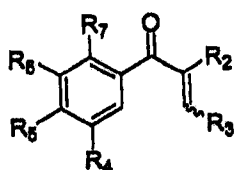
- 1) reacting compounds of formula (IX) and (X) to obtain a compound of formula (XI);
- 2) subjecting the compound of formula (XI) to cyclization to obtain a compound of formula (XII); and
- 3) subjecting the compound of formula (XII) to oxidation[.]



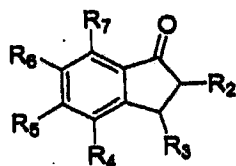
(IX)



(X)



(XI)



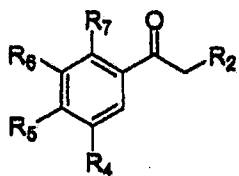
(XII)

wherein,

R<sub>2</sub> to R<sub>7</sub> have the same meanings as defined in claim 5.

8. (currently amended) The process of claim 5, wherein the indenone compound of formula (II) is prepared by a process comprising the steps of:

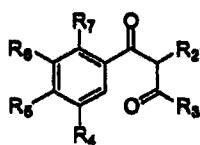
- 1) reacting compounds of formula (IX) and (XIII) to obtain a compound of formula (XIV); and
- 2) subjecting the compound of formula (XIV) to cyclization[.] .



(IX)



(XIII)



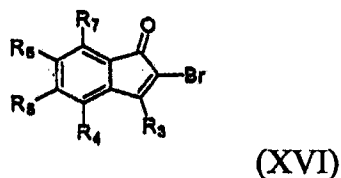
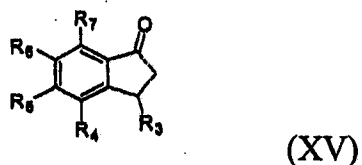
(XIV)

wherein,

$R_2$  to  $R_7$  have the same meanings as defined in claim 5.

9. (currently amended) The process of claim 5, wherein the indenone compound of formula (II) is prepared by a process comprising the steps of:

- 1) subjecting a compound of formula (XV) to bromination obtain a compound of formula (XVI); and
- 2) subjecting the compound of formula (XVI) to a carbon-carbon coupling reaction in the presence of a metal catalyst, or to a substitution reaction using a nucleophile[.] .

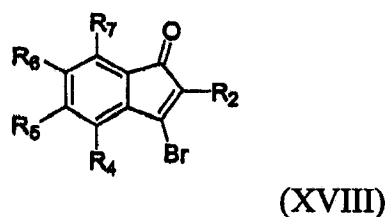
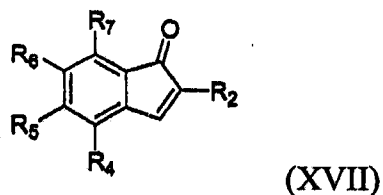


wherein,

R<sub>3</sub> to R<sub>7</sub> have the same meanings as defined in claim 5.

10. (Currently amended) The process of claim 5, wherein the indenone compound of formula (II) is prepared by a process comprising the steps of:

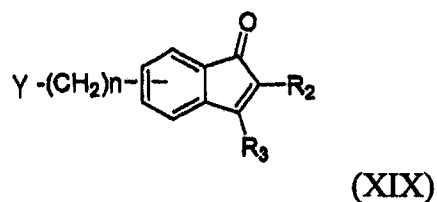
- 1) subjecting a compound of formula (XVII) to bromination to obtain a compound of formula (XVIII); and
- 2) subjecting the compound of formula (XVIII) to a carbon-carbon coupling reaction in the presence of a metal catalyst, or to a substitution reaction using a nucleophile[<sub>-</sub>].



wherein,

R<sub>2</sub> and R<sub>4</sub> to R<sub>7</sub> have the same meanings as defined in claim 5.

11. (currently amended) The process of claim 5, wherein the indenone compound of formula (II) is prepared by subjecting a compound of formula (XIX) to an acylation reaction, a halogenation reaction followed by a substitution reaction by a nucleophile, or a carbon-carbon coupling reaction in the presence of a metal catalyst[.] .



wherein,

R<sub>2</sub> and R<sub>3</sub> have the same meanings as defined in claim 5, Y is hydroxy, thiol, amino C<sub>1-6</sub> alkyl or halogen, and n is an integer in the range of 0 to 5.



12. (Currently amended) A pharmaceutical composition for modulating the activities of peroxisome proliferator activated ~~receptors (PPARs)~~ receptor gamma sub type comprising the compound or salt defined in claim 1 as an active ingredient together with a pharmaceutically acceptable carrier.

13. (Canceled).